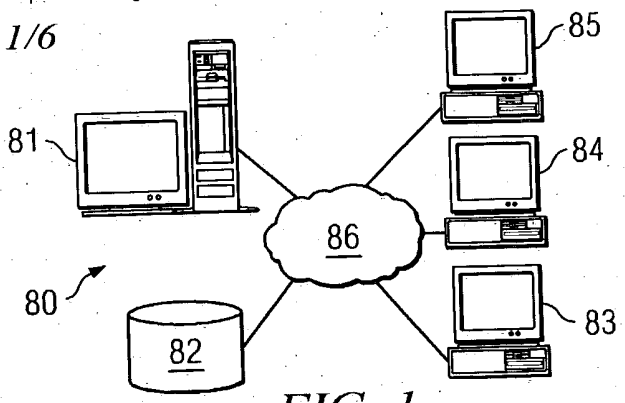

FIG. 1

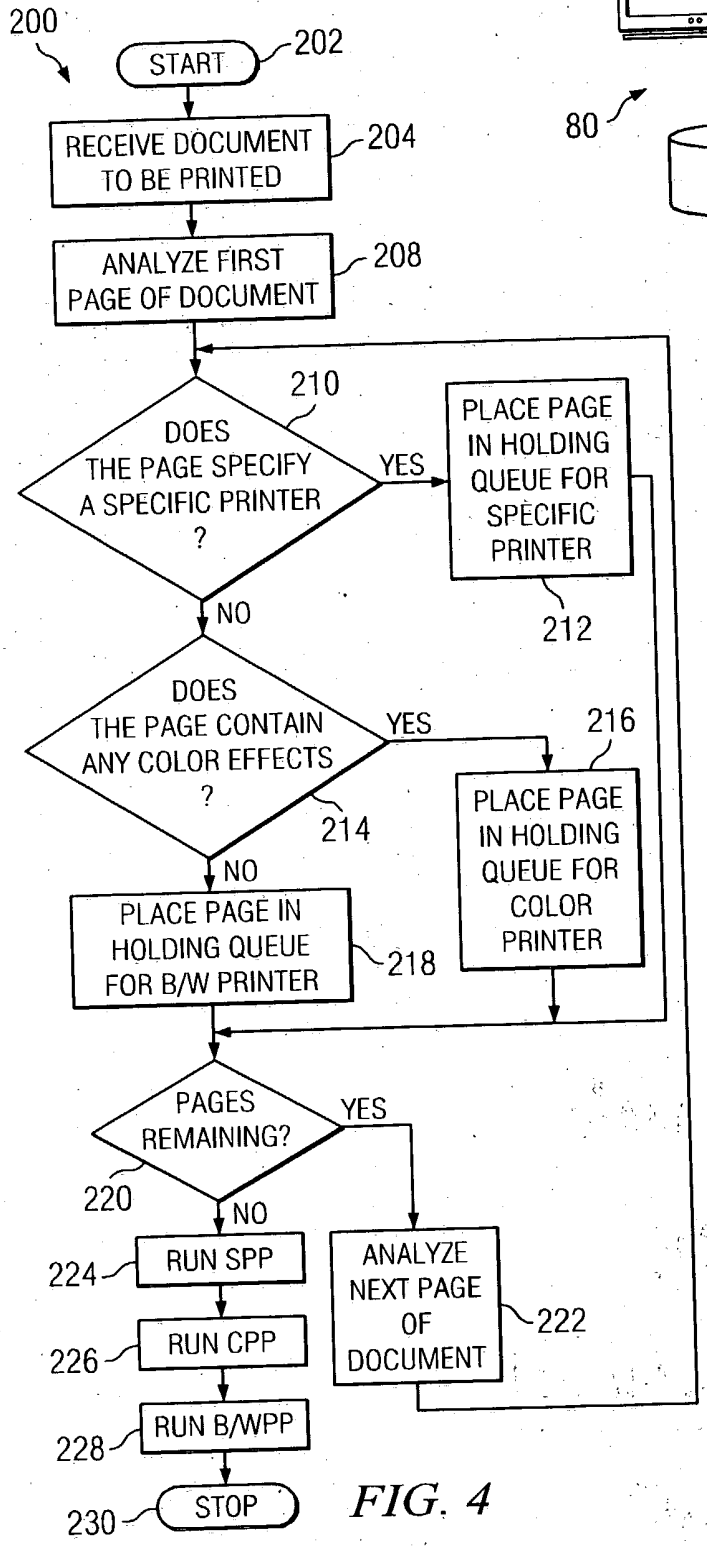

FIG. 4

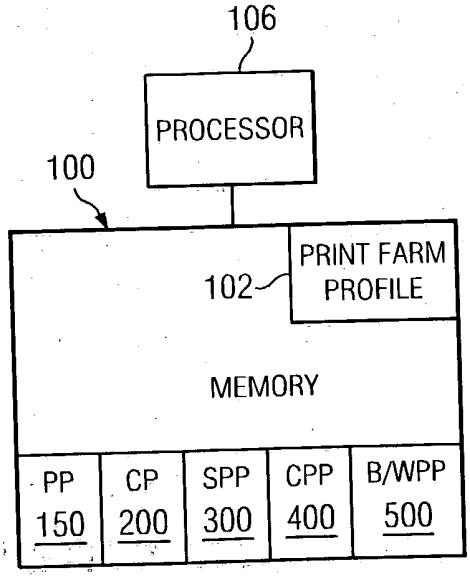

FIG. 2

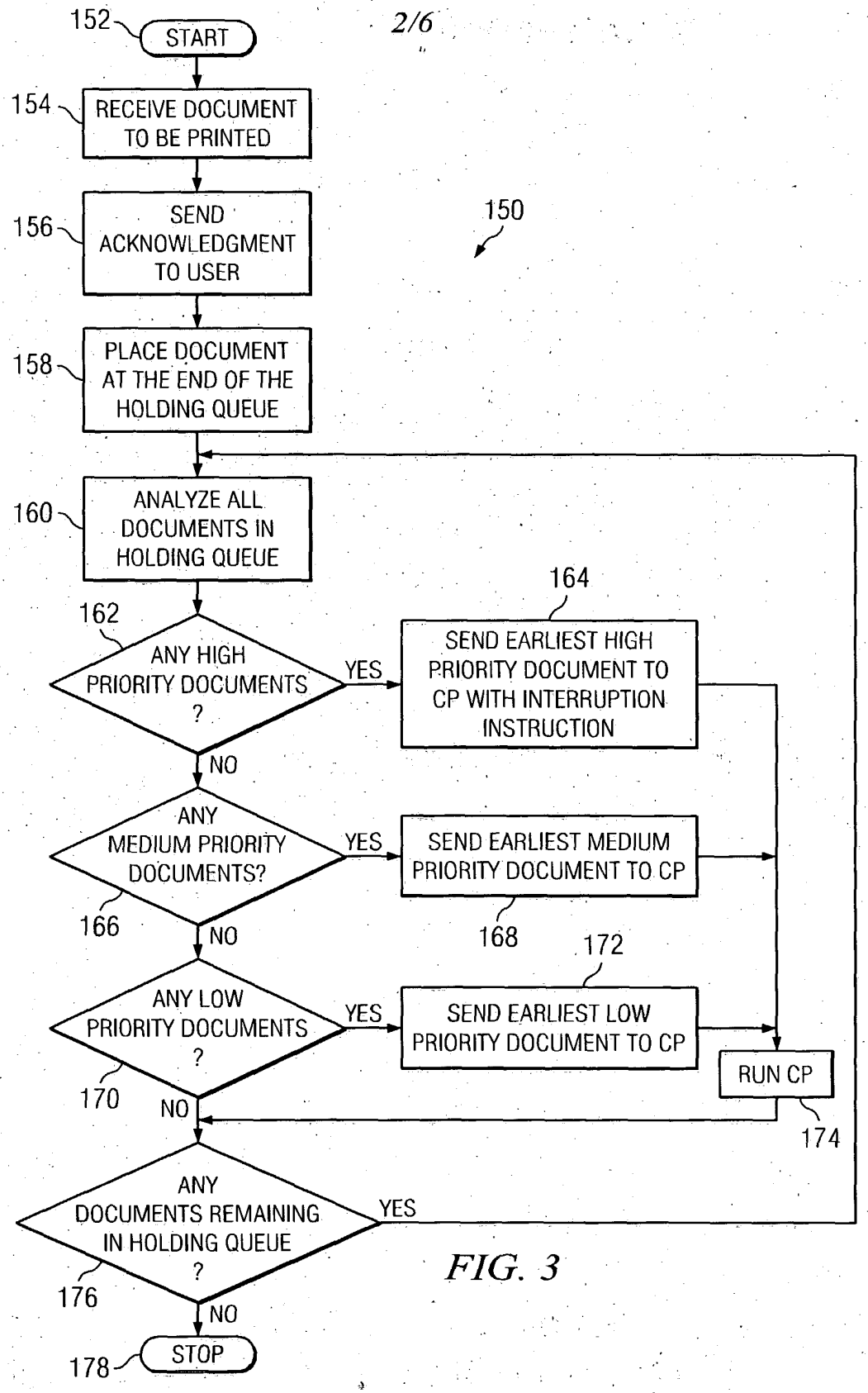
152
START
154
RECEIVE DOCUMENT TO BE PRINTED
156
SEND ACKNOWLEDGMENT TO USER
150
158
PLACE DOCUMENT AT THE END OF THE HOLDING QUEUE
160
ANALYZE ALL DOCUMENTS IN HOLDING QUEUE
162
ANY HIGH PRIORITY DOCUMENTS ?
YES
164
SEND EARLIEST HIGH PRIORITY DOCUMENT TO CP WITH INTERRUPTION INSTRUCTION
NO
ANY MEDIUM PRIORITY DOCUMENTS?
YES
SEND EARLIEST MEDIUM PRIORITY DOCUMENT TO CP
166
168
NO
172
ANY LOW PRIORITY DOCUMENTS ?
YES
SEND EARLIEST LOW PRIORITY DOCUMENT TO CP
RUN CP
170
NO
174
ANY DOCUMENTS REMAINING IN HOLDING QUEUE ?
YES
176
NO
178
STOP

FIG. 3

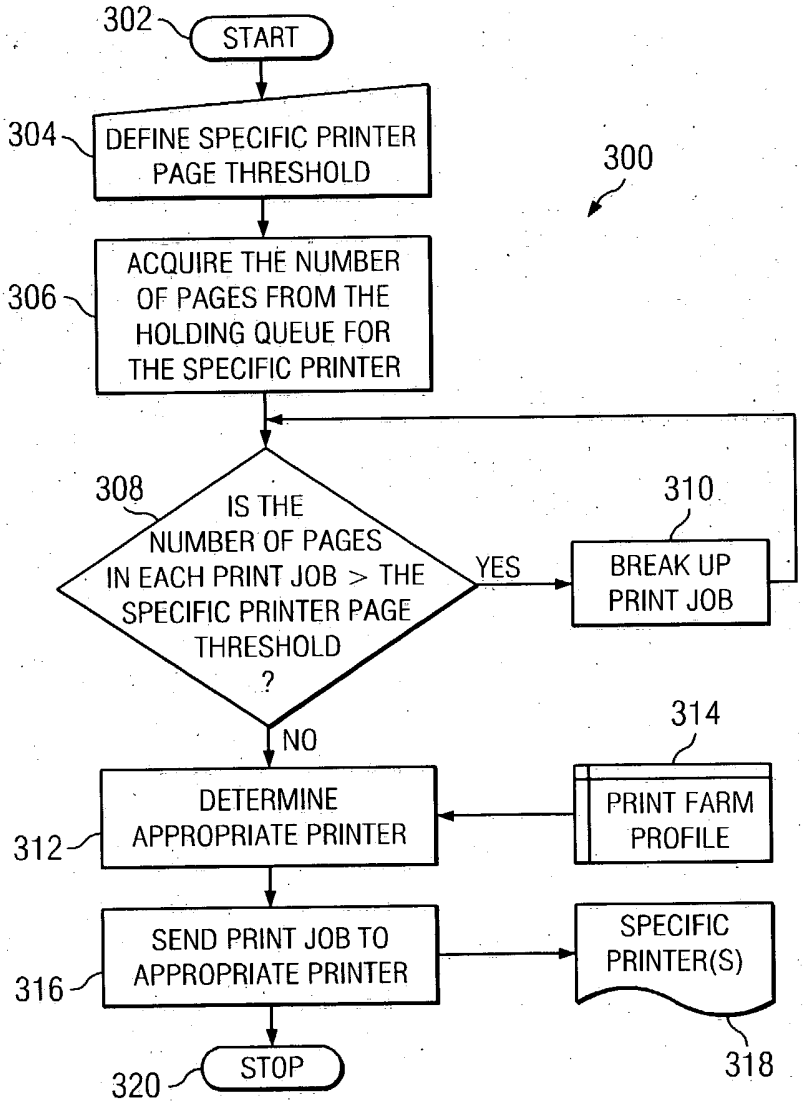
302
START
304
DEFINE SPECIFIC PRINTER PAGE THRESHOLD
300
306
ACQUIRE THE NUMBER OF PAGES FROM THE HOLDING QUEUE FOR THE SPECIFIC PRINTER
308
IS THE NUMBER OF PAGES IN EACH PRINT JOB > THE SPECIFIC PRINTER PAGE THRESHOLD ?
YES
310
BREAK UP PRINT JOB
NO
314
PRINT FARM PROFILE
312
DETERMINE APPROPRIATE PRINTER
316
SEND PRINT JOB TO APPROPRIATE PRINTER
SPECIFIC PRINTER(S)
318
320
STOP

FIG. 5

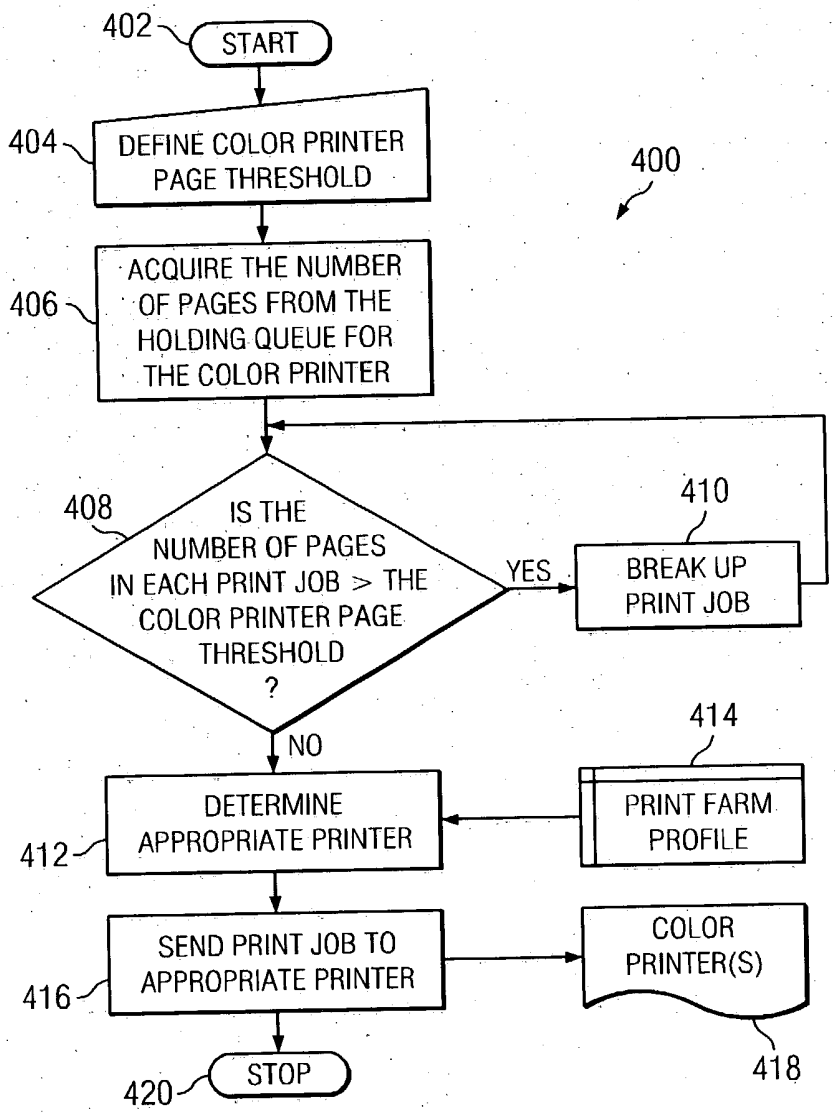
402
START
404
DEFINE COLOR PRINTER PAGE THRESHOLD
400
406
ACQUIRE THE NUMBER OF PAGES FROM THE HOLDING QUEUE FOR THE COLOR PRINTER
408
IS THE NUMBER OF PAGES IN EACH PRINT JOB > THE COLOR PRINTER PAGE THRESHOLD ?
YES
410
BREAK UP PRINT JOB
NO
414
PRINT FARM PROFILE
412
DETERMINE APPROPRIATE PRINTER
416
SEND PRINT JOB TO APPROPRIATE PRINTER
COLOR PRINTER(S)
418
420
STOP

FIG. 6

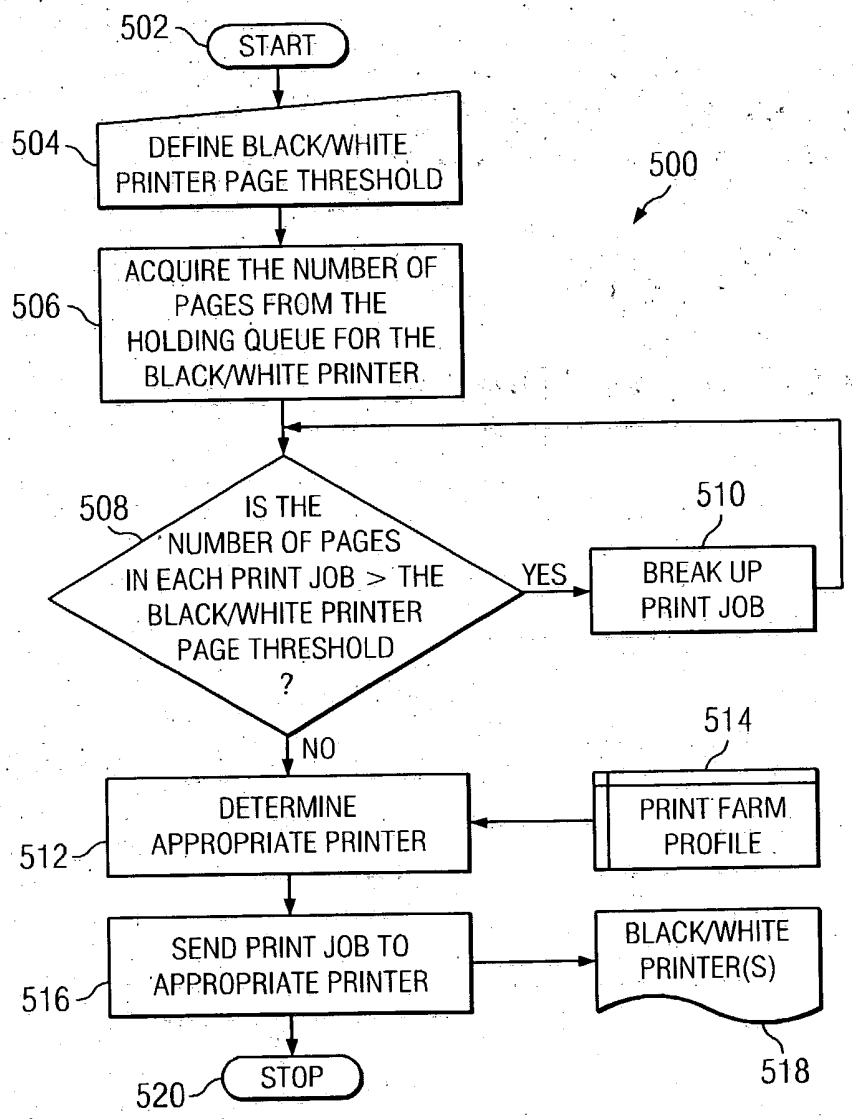
502
START
504
DEFINE BLACK/WHITE PRINTER PAGE THRESHOLD
500
506
ACQUIRE THE NUMBER OF PAGES FROM THE HOLDING QUEUE FOR THE BLACK/WHITE PRINTER
508
IS THE NUMBER OF PAGES IN EACH PRINT JOB > THE BLACK/WHITE PRINTER PAGE THRESHOLD ?
YES
510
BREAK UP PRINT JOB
NO
514
PRINT FARM PROFILE
512
DETERMINE APPROPRIATE PRINTER
516
SEND PRINT JOB TO APPROPRIATE PRINTER
BLACK/WHITE PRINTER(S)
518
520
STOP

FIG. 7

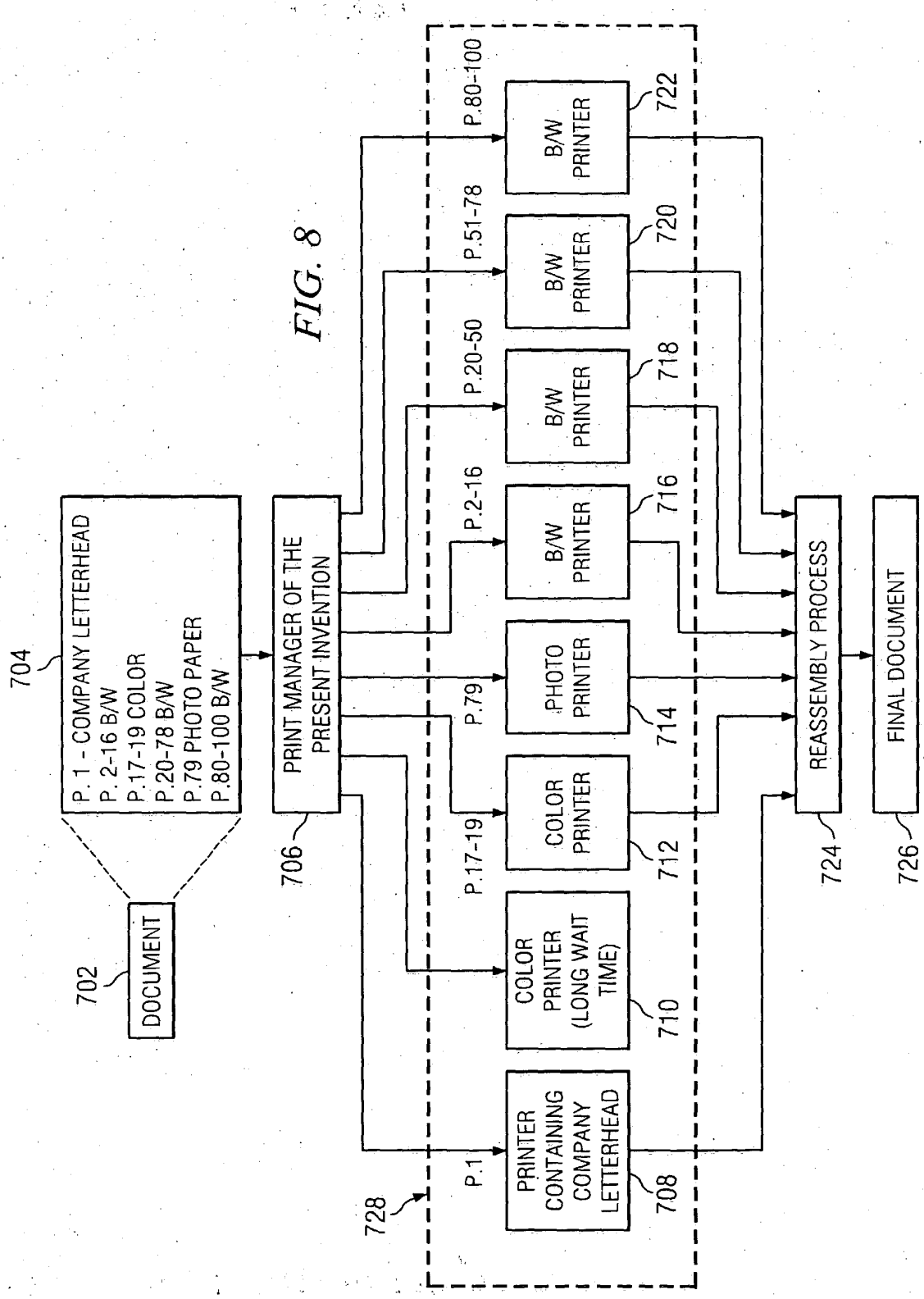
DOCUMENT
702
P. 1 - COMPANY LETTERHEAD
P. 2-16 B/W
P.17-19 COLOR
P.20-78 B/W
P.79 PHOTO PAPER
P.80-100 B/W
704
PRINT MANAGER OF THE PRESENT INVENTION
706
P.1
P.17-19
P.79
P.2-16
P.20-50
P.51-78
P.80-100
728
PRINTER CONTAINING COMPANY LETTERHEAD
708
COLOR PRINTER (LONG WAIT TIME)
710
COLOR PRINTER
712
PHOTO PRINTER
714
B/W PRINTER
716
B/W PRINTER
718
B/W PRINTER
720
B/W PRINTER
722
REASSEMBLY PROCESS
724
FINAL DOCUMENT
726

FIG. 8